

WHAT IS CLAIMED IS:

1. A protection structure for a thermal conducting medium of a heat dissipation device, comprising:

a bottom surface, to cover the thermal conducting medium;

5 a side wall extending along and projecting from a periphery of the bottom surface to form a space for receiving the thermal conducting medium and a portion of the heat dissipation device; and

a support structure protruding from the bottom surface to avoid a direct contact between the thermal conducting medium and the bottom surface.

10 2. The structure of Claim 1, wherein the support structure includes a plurality of bumps protruding from the bottom surface.

3. The structure of Claim 1, wherein the support structure includes a pair of ridges protruding from and extending across the bottom surface.

4. The structure of Claim 3, wherein the space formed by the sidewall is
15 divided into a central space for receiving the thermal conducting medium and a pair of side spaces.

5. The structure of Claim 4, wherein the dimension of the central space is larger than the surface area of the thermal conducting medium.

6. The structure of Claim 1, further comprising a plurality of friction fit
20 structure protruding from the side wall.

7. The structure of Claim 6, wherein the friction fit structure includes a plurality of ribs.

8. The structure of Claim 1, wherein the top edge of the side wall further includes a flange.

25 9. The structure of Claim 1, wherein the heat dissipation device includes a substrate, a plurality of fins projecting from a first surface of the substrate, and the thermal conducting medium attached to a second surface of the substrate.

10. The structure of Claim 9, wherein the bottom surface is conformal to the substrate.

11. The structure of Claim 9, wherein the side wall has a height lower than the height of the fins.

5 12. The structure of Claim 9, wherein the side wall is level with the tips of the fins.

13. The structure of Claim 12, further comprising a lid to seal the heat dissipation device within the protection structure.

10 14. The structure of Claim 1, wherein the support structure includes a pair of parallel ribs.